	Application No.	Applicant(s)
Notice of Allowability	10/530,548	ONOZAKI ET AL.
	Examiner	Art Unit
	Kiley Stoner	1793
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to 9/24/07.	ears on the cover sheet with to (OR REMAINS) CLOSED in this or other appropriate communic GHTS. This application is subj	he correspondence address is application. If not included eation will be mailed in due course. THIS
<u> </u>		
2. The allowed claim(s) is/are <u>1,2,4-8 and 17</u> .		
3. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 5. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the paper No./Mail Date	been received. been received in Application Notements have been received in State of this communication to file a result of this application. Sitted. Note the attached EXAMILES reason(s) why the oath or deat be submitted. Son's Patent Drawing Review (For Amendment / Comment or in the deater according to 37 CFR 1.	this national stage application from the eply complying with the requirements NER'S AMENDMENT or NOTICE OF claration is deficient. PTO-948) attached the Office action of travings in the front (not the back) of .121(d).
 6. □ DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT for attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. □ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. □ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	5. ☐ Notice of Inform 6. ☑ Interview Sumr Paper No./Mai 7. ☑ Examiner's Am	nal Patent Application mary (PTO-413), il Date 12/4/07.

Art Unit: 1793

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with William E. Lyddane on 12/4/07.

The application has been amended as follows:

Non-elected claims 9-16 have been canceled.

Allowable Subject Matter

Claims 1-2, 4-8 and 17 are allowed.

The following is an examiner's statement of reasons for allowance: Zakel (US 6,070,788) is the closest prior art of record. Zakel teaches positioning a substrate, having a metal film on a surface, with the surface facing up in a liquid which is heated to be hotter than a melting point of the solder; and dropping solder fine particles toward the substrate (Figures 3a-3c; and column 5, lines 35-64). However, Zakel does not teach or suggest either alone or in combination with any other piece of prior art, dropping solder fine particles toward the substrate so that particles having a predetermined size reach the substrate when the falling speeds of the solder fine particles are within a specific

Application/Control Number:

10/530,548 Art Unit: 1793

time period, the specific time period being defined to exclude solder fine particles both larger and smaller than the predetermined size.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kiley Stoner whose telephone number is 571-272-1183. The examiner can normally be reached Monday-Thursday (9:30 a.m. to 8:00 p.m.).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jonathan Johnson can be reached on 571-272-1177. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

Application/Control Number:

10/530,548

Art Unit: 1793

Page 4

USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Kiley Stoner

Primary Examiner A.U. 1793